

Mine Students Have a Six-Year Course

(Correspondence Associated Press)
PALO ALTO, Cal., June 20.—Com-
mencing with the fall quarter, Stan-
ford University's mining and metal-
lurgy department will open its doors
with a six-year course leading to the
degree of Engineer of Mines, under
the direction of Theodore J. Hoover,
whose research of international note
and brother of Herbert C. Hoover,
head of the mining and metal-
lurgy section has been closely asso-
ciated with the geology department,
and has offered a four-year prepara-
tory for the mining engineering pro-
fession.

With Hoover's advent into the uni-
versity the mining and metallurgy
department will be more completely
represented and specialized through
close cooperation with geology will
be maintained.
In regard to the new mining de-
partment Professor Hoover said:
"The course needs six years instead
of four. Until now, the work has
been too much specialized in tech-
nical subjects; not that such special-
ization is bad, but there is need for
a broader education of mining engi-
neers, and the addition of 'cultural'
work could not be made in a four-
year course because those four years
were already crowded to the limit.
Under the new arrangement, at the
end of four years a student will have
gained a general education which will
include much chemistry, geology, en-
gineering and also languages, other
humanities subjects and preparatory
professional work. He will then re-
ceive the degree of A. B. in mining
and metallurgy. The next two years,
which lead to the degree of mining
engineer, will consist wholly of pro-
fessional and technical training.

"There are three outstanding rea-
sons for more thorough education of
American mining engineers. In the
past, though foreign capital has had
vast holdings in mining properties
throughout the world, American engi-
neers have been pre-eminent in their
development. An outgrowth of the
war has been that other countries, especially
England, with Anglo-Saxon determi-
nation will push the training of their
engineers to the utmost. Our engi-

neers must be equipped to meet more
strenuous competition.

"Furthermore, the engineers of to-
day carry a more responsibility on
their shoulders. In addition to the
civilization of man is the future of
man. These engineers of metal are
required. The new are decreasing
in metallic content. They now are
lower grade ore must be worked.
Chemical skill will be required to
maintain a proper output.

"Another reason for the complete
preparation is that the holders of
business concerns in the mining field
now are being substantially trained
into their own business as well
as the technical side of the mining
profession.

"Mining is an industry and a more
broad education, such as the mining
department is offering, shows that
these engineers know their business. The mining
department has been placed at head mining
schools are working equipment. To
give the student the idea that he
knows how the business works, he
must be able to watch the mine to
round a few hours a week in some
college course is a possibility. It is
better that when he goes into the
field to work he should acknowledge
to himself and his employers that he
has much to learn about operations.
He will go ahead better than the
one with half-baked notions."

Hoover received the A. B. in min-
ing and metallurgy at Stanford in 1907.
His early professional experience as
an assayer for the Berkeley Consoli-
dated Mining company of Amador
county, Cal., in 1902. Since that time
he has been manager, director and con-
sulting engineer. He has worked in
his scale operations in Australia,
Mexico, India, Russia, Poland, Ger-
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or two. The water is most refresh-
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is constantly changing. Mornings
and afternoons are divided for ladies
and children and the evenings are
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night the pool was filled with a
crowd that enjoyed every minute of
the time and this evening several
parties have been organized for a
plunge.

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